

32 4. (Amended) The stereoscopic device according to claim 2, wherein said visually stable sequence of display images comprises a plurality of sub-matrices, wherein each one of said sub-matrices is selected from a respective one of said stereoscopic images.

33 16. (Amended) The stereoscopic device according to claim 15, further comprising a controllable multi wavelength illumination unit, connected to said processing unit, said controllable multi wavelength illumination unit producing at least two alternating beams of light, each said beams of light characterized as being in a different range of wavelengths.

34 27. (Amended) The stereoscopic device according to claim 26, wherein each of said sub-matrices is located at a distance equal to a respective one of said movements from an origin, in a direction opposite to said respective movement, relative to said origin.

1 30. (Amended) Method for producing a stable sequence of stereoscopic images of an object, the method comprising the steps of:

35 detecting a plurality of stereoscopic images, using a stereoscopic sensor assembly having an optical axis;

for each said stereoscopic images, detecting movements of said stereoscopic sensor assembly perpendicular to said optical axis relative to said object; and

for each said stereoscopic images, selecting a portion of each of said stereoscopic images, according to said respective movement.